Rec'd Jan 9th

Verona, N. J.
June 6, 1882.

Dear Sir:—

I expect to start on the 25th inst. to spend a year in collecting and studying in Botany in the Mogallan Alleg. & vicinity. Can I do anything for you in your special line? I understood that there were some Ferns there about which you desired information.

Very Respty Yours
Henry H. Rusby.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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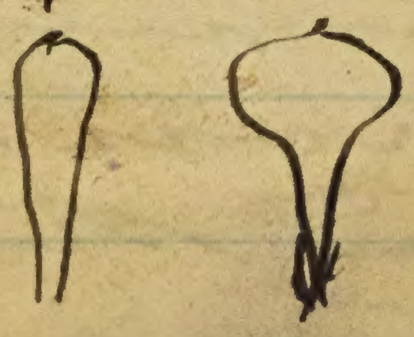
Rec May 28th
Ans 30

1995

Silver City, N. Mex.
May 27 1881.

Dear Sir:-

I am collecting
(2) Forms of Cereus
Phoeniceus. Will you
please tell me whether
the long stylus or
short-styled ones in
the type? If the former,
the latter should be
known as Var. brevistylus
If the latter, the former
should be called Var.
longistylus. They differ
moreover, in color and
form of petals.
The dark colored
one attracted my
attention among a lot



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of light-coloured ones
while I was yet a
boy, distance among
which I observed the
difference in the length
of the styles (and sta-
mens also, but in some
plants ~~the~~ the) some close to
the tips of the petals,
while in others they
do not reach nearly
so high) I considered
it a remarkable case
of dimorphism in
which the petals have
become involved by
correlation. But observ-
ing the fertilization, I
found the same meth-
od to obtain in both,
and concluded that
I had merely a mere
varietal. And here I
wish to say that I be-
lieve I am the first
to note the mode of
cross-fertilization
in this species. The
stigmas do not open
so as to receive pollen

until after the month of the experiment (when closed tightly, and (at least partially) dried around the style below the stigma, thus excluding the possibility of self-pollination even if the anthers had not become dry and functionless before the stigmas opened.

I am discovering many such things that have never been recorded in cross-pollinating and storing in a collection of which self-pollination is actually prevented. My discoveries in Asclepias have been sent to the Bulletin for publication, and the Dept. advised me to bulletin out the search in other genera before publishing anything, as it was a fine

Dear Miss Jones: I am very glad I believe I shall be able to get in early to see Eriocaulon Texense in change of position. In addition (in reserve) to the two Eriocaulon that are in Pycnanthemum the first position of the antlers in the second cryptocarpus stage - the spores are really basal, as they start in Syn. Flor. N.A. I think the first position is abnormal. I suppose you may be interested if you would like me to send Benth. & Hook (Gen Plant.) any abnormal stages. Please write it in English.

Very truly yours
H. H. Rusby.

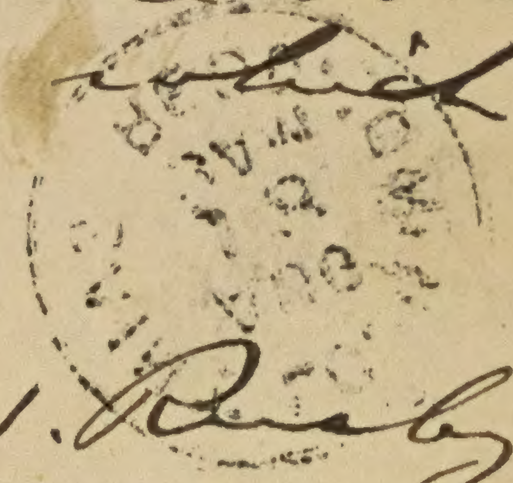
Lunatic Asy. B. D. Ct. Bank, Aug 15, 1882

Rec'd 21 Aug 1882
Ans 25

It has occurred to me that you might have a dissecting case, or other instruments or books that would be useful to me as a med student which you would exchange for. The botanical specimens of which I have a list.

Very Truly

Henry H. Rusby.



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POSTAL CARD.

EDWARDS

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NEW YORK AUG 16 4 PM D

U.S. POSTAGE ONE CENT

82

Prof. A Gray,
Cambridge Mass.
Engelmann U.S.
St Louis
Missouri

CAMBRIDGE MASS. AUG 16 1 PM

SAINT LOUIS AUG

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Rec'd Sept 5 Brookline

Franklin, N. H. Aug 31, 1882.

Dr. Sir:-

My prices are given on 1st page of my list. From that I will make a ~~discount~~ reduction of 25% for selections. If you will take the whole set I will sell them at 7½ per hundred you to pay freight. If you can send list of your candidates to Franklin by Saturday, I can put them up while at home at that time. Resp Yours H. H. Piesley.

MISSOURI BOT... ...N
GEORGE ENGELMANN PAPERS

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FORWARD...

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Dr. Geo. Engelmann
Brookline
Mass.
or
3003 Locust St.
St. Louis,
Missouri

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Rec Sept 19th
an — 27

Franklin, N.J. Sept. 14, 1842

Dear Sir! —

As I have not had any reply to my card, I think it may have failed to reach you, the direction being a little confused.

I would state therein to sell you selections from my lists (sent to St. Louis) at $7 50/100 per hundred; or the complete set for $20 00/100, I said I could persuade you to take the whole set. The specimens are nice, and very liberal, many of them being capable of division.

If it is convenient will you please send your Order before Oct. when I lectures begin at the Coll. of Phys. & Surg. As I have to do & have clerical work daily at the Lunatic Asylum, in addition to my studies, I shall need all my time during lectures & can hardly pack plants.

Truly Yours Henry H. Rugby.

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3 / 8 Reese

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Rec'd Oct 15th
Ans - 22'

Franklin, N. J.
Oct - 15 - 1882.

Dear Sir! -

I will send you tomorrow, by U. S. X, a package of plants. I have selected the best I had, and you cannot but be pleased with them. You will find some poor specimens. Those are not counted in the 445 for which I have charged you, so you will only have to pay for the good ones. For the same reason I have not sent some species, as I had no good specimens,

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remaining:

You will find a few plants which I have been unable to name myself or find anyone else to name, Dr. Gray told me to send them to you. They are 3 Euphorbias, and 1 Cuscuta.

Obs. 3/7 Dr. Gray calls C. umbellata, but the Stems & Leaves think it is not that species. It have quite different

Very Truly Yours.

Henry N. Ridley.

Please address me at Lunatic Asylum, B. I. New York N. Y.

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Dr. Sir/—

I collect 466 Muhlenbergia species, var. glaucina. It should have been M. gracilis, var major, Vasey. The Panicum Oma-galli var = P. crusgalli, var. muticum.

H. H. Rusby.

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GEORGE ENGELMANN PAPERS

Dr. Geo. Engelmann
St. Louis
Missouri
(Lacustaw.)

Lunaria Asplenium B. D. & B. Nov 13/82.

Dear Sir—

I have examined all my specimens of L. biennis in hopes of finding some young buds, but in vain. I had to leave them with before it opened, and I never saw it again. Dr. Gray just writes that 246½ is Actinella Rusbyi

Yours Truly

H. N. Rusby.

POSTAL CARD.

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NEW YORK
NOV 13
3:30 PM
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82

Geo. Engelmann
303 Locust St.
St Louis
Missouri

H. C. PARKE, President.

G. S. DAVIS, Sec'y & Treas.

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MANUFACTURING CHEMISTS.

LABORATORY,
MACDOUGAL AVE. GUOIN & ATWATER STS.

NEW YORK BRANCH,
60 Maiden Lane &
21 Liberty St.

Herbarium Department. T. H. Rusby, Curator.

~~Detroit, Mich.~~ Jan 8 1884

Univ. Med. Coll, N. York

Dr. Geo Engelmann, St. Louis, Mo

Dear Doctor:—

Please accept
thanks for your letter of the
3rd with determinations of
Cactaceae. If I have a spec-
imen of "X" with fruit, I
will send it when next
I go to Franklin.

Our photographs are as follows

Opuntia Engelmanni

" " var. littoralis

23 " acanthocarpa

" leptocaule

34 " ———— Ludlami

63 " Rafinesquii & Echinoc. Missouriensis

The one of which the name is
omitted is a flat-jointed Opuntia,
joints broadly obovate, very glaucous
with a slight purplish tinge,

Rec'd Jan 11
Ans — 14

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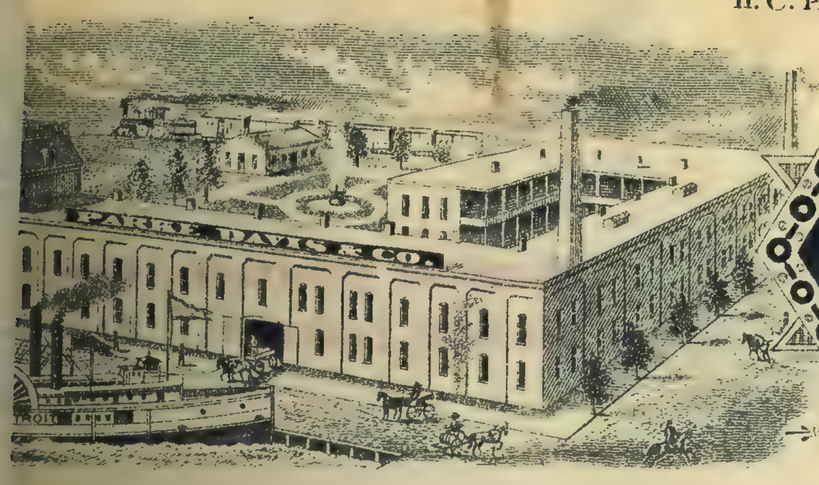

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Herbarium Department.—H. H. Rusby, Curator.

Detroit, Mich. _____ 188_

spinelaxe except for small cushions of minute spines. The flowers are said to be "red, and the fruit purplish yellow." I think I will send you the set, and you may keep them if you choose. The Opuntia Chlorotica had, as you say, a dense coat of ~~spines~~ hairs on its trunk. The Mammillaria ~~wimpa~~ wimpa that I have always seen grows singly. The form that I sent you grows in masses. The Cereus stramineus grows about a foot high, and 2 to 3 inches in diameter.

All the others are represented in the pictures which will be sent in a day or two.

Truly Yours H. H. Rusby

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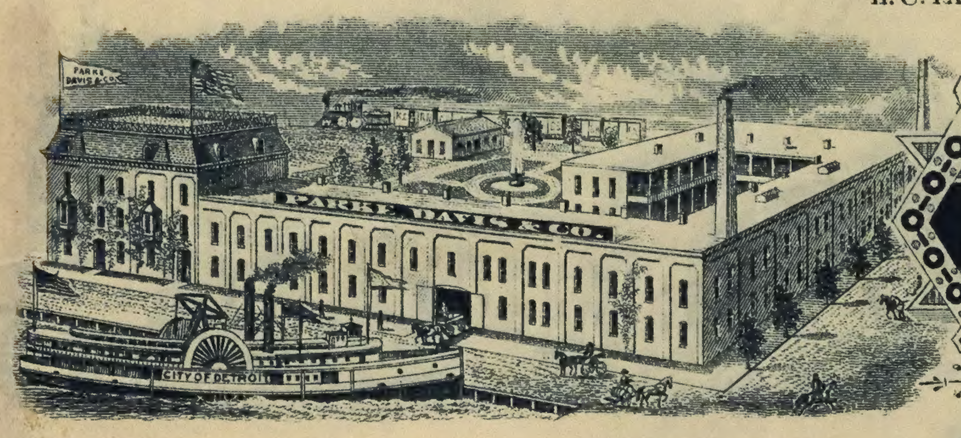

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Herbarium Department.—H. H. Rusby, Curator.

~~Detroit, Mich.~~ Jan 22 1884.

Cunningham. Calle N. Bork.

" the photographer has got two names transposed" Rusby

Dec Jan 25 26 Ans —

Dear Doctor:—

I have your letter of the 19th and must reply in brief.

The Opuntia Bigelovii grows exactly as you describe it, and as I described it in my first letter to you — with a distinct trunk; but of the half-dozen that we saw, that was the only one at all accessible to our instrument. The trunk also is as spiny as the branches. Near it, but not in the picture, was Echinocactus polycephalus, which grows thickly with E. Wislizeni. That picture was taken near the Colorado River at Diamond Creek, in a canon leading from Peach Spring (A. & P. R. R.) to the Grand Canon. O. bigelovii & O. acanthocarpa were photographed 5-0 miles further

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Detroit, Mich. 188

meet — near Kingman, and the
other at Beaver Creek.

C. Lesquereux's return, as I want
you to see it. It is not the
flat one, but the large knob — the
most prominent ~~object~~ object in the
foreground. That is the way it
grows there — 4 ft high, and 6 ft
in diameter. We focussed it too
close. When we had not one
camera we found it in flower,
and took specimens.

Very truly yours

H. H. Rusby.

Dr. Geo. Engelmann
St. Louis, Mo.

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